



# Acepsis<sup>®</sup>

Asepsis - (**uh-SEP-sis**, **ay-SEP-sis**): The state of being free from disease-causing micro-organisms.

## Who We Are and What We Do

# REVOLUTIONIZING ON-FARM HYGIENE SOLUTIONS

# WHO WE ARE

## Who Are We?

ACEPSIS® is a Wisconsin-based innovator in advanced animal hygiene technologies, dedicated to helping modern farms achieve healthier herds, cleaner facilities, and stronger production results. Our goals are simple yet powerful: protect animal wellness while advancing the sustainability, longevity and profitability of animal agriculture.

## Our Primary Avenue to Success is Chlorine Dioxide. Why?

At the core of our success is our expertise in chlorine dioxide hygiene systems. Recognized worldwide as one of the most effective disinfectants, chlorine dioxide:

- Destroys pathogens quickly and thoroughly
- Penetrates biofilms that harbor bacteria and reduce hygiene standards
- Delivers safer, cleaner water and facilities across every corner of the farm

Unlike traditional sanitation methods, chlorine dioxide consistently ensures higher cleanliness, lower risk of disease, and greater herd performance.

## Why the Acepsis® Way Leads the Industry

Yes, other companies offer chlorine dioxide. But only Acepsis® delivers a comprehensive, farm-wide program designed for measurable results:

- Proven efficacy backed by ORP (Oxidation Reduction Potential) testing
- Advanced formulations that maximize oxidation power without compromising stability
- Sustainable practices with ultra-concentrated precursors and efficient automated blending systems
- Customized farm solutions supported by expert field teams who tailor programs to your unique needs



### Measurement of Oxidizing Agent ORP Values In Pathogen Disinfection\*

OXIDIZING AGENT | OXIDIZING AGENT ORP VALUE RANGE (mV)

CHLORINE DIOXIDE (ClO <sub>2</sub> )	600 → 1000 MV
OZONE* (O <sub>3</sub> )	700 → 1000 MV
IODOPHORS (I <sub>2</sub> )	400 → 600 MV
HYDROGEN PEROXIDE	300 → 500 MV
SODIUM HYPOCHLORITE	250 → 500 MV

### ORP Values In Pathogen Disinfection\*\*

PATHOGEN SURVIVAL IN SECONDS (S) OR HOURS (H) AT ORP LEVELS (MV)

Pathogens	<500 ORP (mV)	500 - 600	600 - 700	700+
E. COLI (0157:H7)	> 300 S	< 60 S	< 10 S	< 1 S
SALMONELLA SPP.	> 300 S	> 300 S	< 20 S	< 1 S
LISTERIA MONOCYTOGENES	> 300 S	> 300 S	< 30 S	< 1 S
THERMO-TOLERANT COLIFORM	> 48 H	> 48 H	< 30 S	< 1 S



\*Ozone is greatly influenced by the water quality and ozonation system.

\*\*Oxidation Reduction Potential (ORP) for Disinfection Monitoring, Control and Documentation; University of California, Trevor Suslow, Department of Vegetable Crops, University of California - Davis

# BOTTOM LINE

**Acepsis® is more than a product supplier—we're your partner in achieving total hygiene, healthier animals, and stronger farm performance.**



## 1. TOTAL HYGIENE PROGRAM

Acepsis® products are integral to comprehensive hygiene programs that cover all aspects of farm cleanliness. They focus on the use of chlorine dioxide technologies as a primary step within a total hygiene program.



## 2. MAXIMIZED OXIDATION CAPACITY

Our **advanced chlorine dioxide formulations** are designed to be potent oxidizers **activated** at lower concentrations, ensuring high efficacy and longer shelf life compared to competitors. Also, competitive products made with the emollient packages included in the activator or base formulations will show dramatically lower oxidation capacities, which translates into lower efficacy.



## 3. MEASURABLE EFFECTIVENESS

The effectiveness of our solutions can be quantified using **ORP (Oxidation Reduction Potential) meters**, ensuring higher pathogen reduction and better results. **Oxidation Reduction Potential (ORP)** is a measurement of a germicidal agent's effectiveness in reducing disease-causing pathogens. **ORP is measured in millivolts (mV)** (see charts on previous page). **Acepsis®** products, with our innovative formulations and blending processes, will give you a higher ORP, and therefore, greater efficacy.



## 4. ECONOMY AND ECOLOGY

Our Automated Blending Processes streamline product delivery, reduce labor costs, and support sustainability through recyclable totes and drums. In addition to providing optimal **Acepsis® products** for water, facility and animal hygiene, we utilize a "Best Practices" approach that strengthens the product results.



## 5. QUALITY MANAGEMENT

**The Acepsis® Systems** prioritize the individual needs of each dairy farm, focusing on improved hygiene, reduced costs, and lower incidences of health issues, putting the individual dairy farm needs first, and in total control. The system focuses on:

- Improved farm hygiene
- Lower input and operational costs
- Lower incidence of exception animals
- Our experts work with your team to solve any on-farm concerns

# OUR FOCUS AREAS

Acepsis® solutions target the three most critical hygiene points on the farm:

- 1. Animal Hygiene** – Protecting udder health, reducing mastitis risk, and improving milk quality.
- 2. Facility Hygiene** – Keeping barns, parlors, and equipment consistently clean
- 3. Water Hygiene** – Delivering safe, pathogen-free water at the water trough for better intake and improved overall health

## WATER HYGIENE

### SMART TROUGH™

#### THE FUTURE OF LIVESTOCK MANAGEMENT

Unlock the full potential of your dairy herd with the essence of a healthy, vibrant herd: **clean, healthy water!**

The patented Acepsis® SMART TROUGH™ System: a new-to-the-world water trough design. The SMART TROUGH collects all the organics that enter the trough into a central channel.

To clean out the organics collected, a baffle tube is placed over the central channel. When the SMART TROUGH drain is opened, it **instantly removes 90+% of the organics collected, dumping less than 20% of the water from the SMART TROUGH™!**

#### THE MANY ADVANTAGES



#### 1. Enhanced Animal Health

- Disease Prevention
- Improved Hydration and Welfare

#### 2. Increased Productivity and Performance

- Higher Milk Yield
- Improved Feed Efficiency

#### 3. Cost Savings

- Reduced Veterinary Costs
- Maintenance and Operational Efficiency

#### 4. Sustainability and Environmental Protection

- Sustainable Water Management
- Reduced Environmental Impact

#### 5. Quality Assurance / Market Compliance

- Compliance with Standards
- Improved Product Quality

#### 6. Data-Driven Decision Making

- Real-Time Monitoring
- Informed Management Decisions



✓ Clean Troughs! ✓ Healthy Water! ✓ Healthier Herd! . . .



# WATER HYGIENE

AquaSoar™

## THE ULTIMATE WATER HYGIENE TECHNOLOGY

**Use AquaSoar as an everyday water treatment solution to keep animal drinking water as healthy and palatable as possible, ensuring the farm water supply is safe to drink.**

AquaSoar™ is a concentrated, two component, activator / base technology that produces chlorine dioxide on site, using the farm water source for dilution. The specially formulated AquaSoar™ Activator / Base precursors produce chlorine dioxide at the highest yield, in the shortest amount of time.

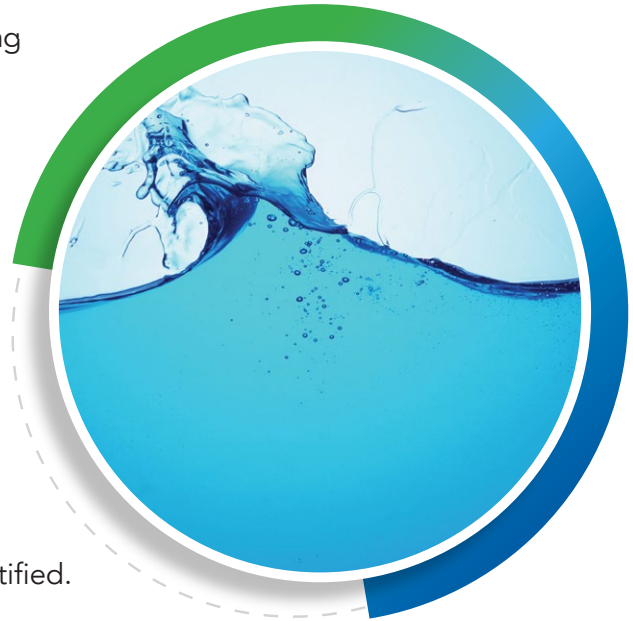
Acepsis® AquaSoar™ is the ultimate solution for maintaining clean and safe drinking water for animals.

### KEY FEATURES

- **On-Site Chlorine Dioxide Production:** Uses farm water for dilution, producing chlorine dioxide efficiently
- **Biofilm Control:** Prevents and eliminates biofilms in water systems, reducing disease risks
- **Cost-Effective:** Concentrated precursors ensure low cost per use, providing great value



Acepsis® AquaSoar™ is proud to be NSF certified.



## AquaSoar™ Activation System

### THE SOLUTION

Removing biofilm is crucial for maintaining water hygiene. The AquaSoar™ product line, combined with our **AquaSoar™ Activation System**, effectively targets and eliminates biofilm, ensuring safer drinking water for animals and reducing the risk of disease.

The AquaSoar™ **Activation System** delivers the highest yields and efficiency in the activation and dosing of the AquaSoar™ product.

Higher yields, higher efficiency, quantifiable results, increased ROI.

### THE AQUASOAR™ ACTIVATION CHAMBER IS A FOUR-COMPONENT WATER HYGIENE SYSTEM

- |                                 |                        |
|---------------------------------|------------------------|
| A. AquaSoar™ Activation Chamber | D. Water Meter         |
| B. Dual Product Injection Pump  | E. AquaSoar™ Base      |
| C. Controller                   | F. AquaSoar™ Activator |



# EXPERT SOLUTIONS FOR YOUR **NEEDS**



## ANIMAL HYGIENE

### NOVA SMART™ Milking Hygiene System

#### TEAT DIP FORMULAS

The **Aceptis® NOVA SMART™ Milking Hygiene System** provides a breakthrough technology combination of concentrated **Precursor Teat Dip Formulas**, together with a **Patented Production System**.

The NOVA SMART™ System puts a dairy farm, and its Milk Quality Team, in complete control. The on-farm mixing system provides complete transparency of formulation and usage rates. You can also track exactly how much product you're using – from day to day, or even shift to shift.



#### KEY FEATURES

**Remote Monitoring** of the mixing system is available. Text message alerts show for:

- Overproduction (perhaps there's a leak in the distribution system)
- Underproduction (perhaps the night shift didn't dip cows)
- Manufacturing fault codes (perhaps one of the precursor drums is empty)

**Premium Precursors** create premium Ready-to-Use product! It's the most efficacious chlorine dioxide teat dip with the longest RTU shelf life in the market.

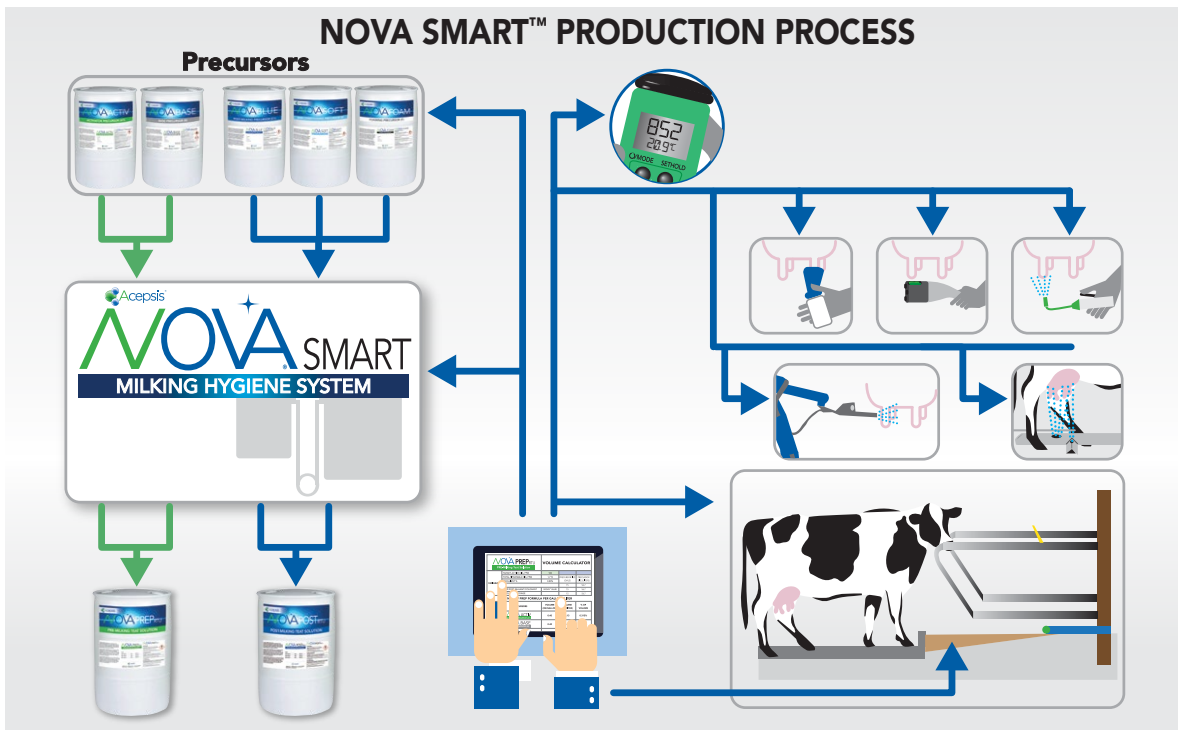
The **NOVA™ PREP** and **NOVA™ POST** teat dips are produced to deliver formulations at a higher oxidation capacity, improving performance at safe concentrations for udder, teat skin, and operator safety.



#### YOU CAN MEASURE THE DIFFERENCE

The oxidation capacity of an oxidizing solution can be measured and compared. That is done with an **ORP (Oxidation Reduction Potential) meter**. Oxidation Reduction Potential (ORP) is a measurement of a germicidal agent's speed in reducing disease-causing pathogens.

Germicidal efficiency is the comparison of both the concentration and contact time of the germicide. Translated into the hygiene world, the higher the ORP reading, the **quicker the kill time**. This is extremely important in high-pressure milking parlors, where pre-milking time is minimized.



With our patented mixing process, we guarantee our system to be 99.9% accurate and to produce exactly the formulation called for.

NOVA PREP <sup>RTU</sup> PRE-Milking Teat Solution		VOLUME CALCULATOR		
VARIABLES	FARM NAME:	DAIRYLAND ONE		
	NUMBER OF COWS MILKING	2,400	SESSIONS / DAY	3.0
	USING NOVA PREP SOLUTION (Y / N)	Y		
	APPLICATION METHOD	SCRUBBER		
	TARGET ACTIVE ClO, PPM	138		
	ESTIMATED APPLICATION AMOUNT (ML)	40	PRECURSOR SIZE (GALS)	PRECURSOR SIZE (LITERS)
	EMOLLIENT %	0.00%		
	PRECURSOR A/B PACKAGE SIZE		55	207.9
	EMOLLIENT PACKAGE	NO EMOLLIENT	275	1039.5
	COLORANT	NO COLOR	15	56.7
NOVA PREP FORMULA PER RTU GALLON / LITER				
	PRECURSORS	VOLUME (OZ/GALLON)	VOLUME (ML/LITER)	% OF VOLUME
	NOVA ACTIV <sup>®</sup> ACTIVATOR PRECURSOR (A1)	0.32	2.50	0.250%
	NOVA BASE <sup>®</sup> BASE PRECURSOR (B)	0.32	2.50	0.250%
	NOVA SOFT <sup>®</sup> SKIN CONDITIONING PRECURSOR (S)	0.00	0.00	0.000%
	NOVA ULTRA <sup>®</sup> BLUE COLORANT (C)	0.00	0.00	0.000%
	NOVA FOAM <sup>®</sup> FOAMING PRECURSOR (F)	0.00	0.00	0.000%
	WATER	127.36	995.00	99.500%
	TOTAL	128.00	1,000.00	100.0%

NOVA POST <sup>RTU</sup> POST-Milking Teat Solution		VOLUME CALCULATOR		
VARIABLES	FARM NAME:	DAIRYLAND ONE		
	NUMBER OF COWS MILKING	2,400	SESSIONS / DAY	3.0
	USING NOVA PREP SOLUTION (Y / N)	Y		
	APPLICATION METHOD	ROBOT SPRAY		
	TARGET ACTIVE ClO, PPM	193		
	ESTIMATED APPLICATION AMOUNT (ML)	40	PRECURSOR SIZE (GALS)	PRECURSOR SIZE (LITERS)
	EMOLLIENT %	4.00%		
	PRECURSOR A/B PACKAGE SIZE		55	207.9
	EMOLLIENT PACKAGE	NOVA SOFT	275	1039.5
	COLORANT	COLOR-MED	15	56.7
NOVA POST FORMULA PER RTU GALLON / LITER				
	PRECURSORS	VOLUME (OZ/GALLON)	VOLUME (ML/LITER)	% OF VOLUME
	NOVA ACTIV <sup>®</sup> ACTIVATOR PRECURSOR (A1)	0.45	3.50	0.35%
	NOVA BASE <sup>®</sup> BASE PRECURSOR (B)	0.45	3.50	0.35%
	NOVA SOFT <sup>®</sup> SKIN CONDITIONING PRECURSOR (S)	5.12	40.00	4.000%
	NOVA ULTRA <sup>®</sup> BLUE COLORANT (C)	0.50	3.91	0.391%
	NOVA FOAM <sup>®</sup> FOAMING PRECURSOR (F)	0.00	0.00	0.000%
	WATER	121.48	949.09	94.909%
	TOTAL	128.00	1,000.00	100.000%

For either Pre- or Post milking products, we can calculate your individual requirements and economics.

# EXPERT SOLUTIONS FOR YOUR **NEEDS**

## ANIMAL HYGIENE

### HabiShield™ Drying Powder

ANIMAL HYGIENE DRYING POWDER

Your **Calf Biosecurity** Program:  
*Protecting Your Most Important Assets!*



**HabiShield™ Drying Powder** is a multi-purpose drying agent ideal for calf biosecurity. May be used to dry newborn calves / wet animals and in animal bedding, to reduce disease-causing pathogens. Key features include:

- **Moisture Absorption:** Absorbs three times its weight in water, reducing pathogen spread
- **Odor Control:** Maintains a clean and safe environment for newborn calves.
- **Temperature Regulation:** Helps calves regulate body temperature by preventing heat loss.



# EXPERT SOLUTIONS FOR YOUR **NEEDS**

## FACILITY HYGIENE

### HabiStat™

#### THE ULTIMATE FACILITY HYGIENE TECHNOLOGY

##### Improving Animal Wellness Through Optimized Facility Hygiene

A powerful facility hygiene technology designed to maintain a clean and safe environment in animal housing facilities.

Its **benefits include:**

- **Concentrated Cleaning Agents:**  
Ultra-concentrated base and activator technology contains powerful facility and hygiene agents that ensures thorough cleaning
- **Disease Control:** Helps control disease-causing organisms, improving overall animal wellness. The proper hygiene environment requires a focus on biosecurity, and exceptional facility hygiene practices.



By integrating the **HabiStat™ Activation System**, Acepsis® provides a reliable, efficient, and effective solution for maintaining top-tier facility hygiene.

- **Optimized Mixing**
  - **Automated Delivery**
  - **Timely Application**



## FACILITY HYGIENE

### Chlor-A-Foam™

#### THE ULTIMATE DETERGENT FACILITY HYGIENE TECHNOLOGY

Looking clean is no longer an adequate practice. Optimal hygiene requires the proper steps to provide the highest level of protection against the spread of disease-causing organisms.

**Acepsis® CHLOR-A-FOAM™** is an ultra-concentrated alkaline foam cleaning detergent, designed for use in the most challenging manual cleaning applications. It features:

- **High pH Formula:** Effective in lifting and removing tough soil and biofilms from surfaces
- **Enhanced Hygiene:** Ensures cleaner and safer facilities for animals



# EXPERT SOLUTIONS FOR YOUR **NEEDS**

## **FACILITY HYGIENE**

### **HabiGuard™ Powder**

#### **FACILITY BIOSECURITY FOR DAIRY FARMS**

HabiGuard™ Powder is an advanced surface cleaner specifically designed to meet the unique biosecurity and hygiene challenges of dairy farms. Its innovative formulation penetrates deep into cracks, crevices, and porous surfaces, delivering superior sanitation and disease prevention. When activated by moisture, its dual oxidation process ensures powerful cleaning action.



#### **PRIMARY APPLICATIONS**

##### **Calf and Maternity Areas**

- Bedding Base Treatment (indoor loose housing)
- Calf Hutches (single, dual, and multiple)
- Maternity Pens

##### **Walkways and Traffic Zones**

- High-Traffic Areas
- Milking Parlors

##### **Entryways and Biosecurity Zones**

- Personnel & Equipment Entrances

##### **Drain and Floor Cleaning**

- Odor and Blockage control
- Floor Cleansing



**For more information, call Acepsis® or your local representative.**

ACEPSIS®, LLC is an animal health based company that is focused on the development of state-of-the-art animal hygiene technologies. Our Company's mission is to apply innovative animal hygiene technologies into the agricultural and veterinary market sectors.